

5/5/1 (Item 1 from file: 347)

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PLATE ASSEMBLING DEVICE FOR HEAT EXCHANGER CORE

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INVENTOR(s): MATSUDA KAICHI

NAKAGAWA AKIRA

IWASE TAKATOSHI

HAKAMATA KOHEI

APPLICANT(s): NIPPON DENSO CO LTD [000426] (A Japanese Company or Corporation), JP (Japan)

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ABSTRACT

PURPOSE: To automatically and a securely drive a side plate into both ends of a tube by providing a clamp device for a heat exchanger core, a fin guide device, a tube guide device, and a plate driving device.

CONSTITUTION: A heat exchanger core 1 composed of a pair of end plates 2, 3, many tubes 4, and a fin 5 is automatically compressed and held with a clamp device 1 in a direction of arranging the tubes 4 and the fin 5. In addition, since both ends of the fin 5 is guided between the adjoining tubes 4 and between the tube 4 and the end plates 2, 3 by means of a fin guide device 22, both the ends of the fin 5 are prevented from projecting. Moreover, between the adjoining tubes 4, and among the end plates 2, 3 and the tube 4 are respectively kept in prescribed intervals by automatic holding of a tube guide device 27. Furthermore, the side plates 2, 3 can be automatically driven into both ends of the tube without fail.